



16. (Previously Presented) The method as recited in claim 13 wherein the characteristic values include at least one of a minimum, a mean value, a maximum, and a standard deviation of the measured data over a time interval.

17. (Previously Presented) The method as recited in claim 13 wherein the characteristic values include a statistical value of the measured data over a time interval.

18. (Previously Presented) The method as recited in claim 13 further comprising determining a time interval for combining the measured data as a function of a measuring method.

19. (Previously Presented) The method as recited in claim 13 wherein the measuring system includes a second measuring computer and wherein measurement packets are transmitted between measuring computer and the second measuring computer.

20. (Previously Presented) The method as recited in claim 19 wherein the measurement packets include User Datagram Protocol measurement packets.

21. (Previously Presented) The method as recited in claim 19 wherein the characteristic values include a sum of all packets lost and a maximum of all successively occurring packet losses, and

further comprising determining the sum of all packets lost and the maximum of all successively occurring packet losses during a detection of measurement packet losses in a time interval.

22. (Previously Presented) The method as recited in claim 19 wherein the measured data includes unidirectional transmission characteristics.

23. (Previously Presented) The method as recited in claim 19 wherein the combining and transmitting are performed using the measuring computer, and wherein the measuring computer functions as a receiver and the second measuring computer functions as a sender.

24. (Previously Presented) The method as recited in claim 22 wherein the characteristic values include a mean one-way delay, a maximum one-way delay, and minimum one-way delay, a standard deviation of a one-way delay, a mean IP delay variation, a maximum IP delay variation, a standard deviation of an IP delay variation, a packet loss, and a packet throughput.

25. (Previously Presented) The method as recited in claim 22 wherein the characteristic values include a statistical characteristic value.

26. (Previously Presented) The method as recited in claim 23 wherein the characteristic values include a mean one-way delay, a maximum one-way delay, and minimum one-way delay, a

standard deviation of a one-way delay, a mean IP delay variation, a maximum IP delay variation, a standard deviation of an IP delay variation, a packet loss, and a packet throughput.

27. (Previously Presented) The method as recited in claim 23 wherein the characteristic values include a statistical characteristic value.

28. (Cancelled)

29. (Currently Amended) A measuring system comprising:

a control computer; and

a measuring computer interconnected with the control computer via a telecommunications network, the measuring computer being configured to:

combine measured data into characteristic values having a lower volume than the measured data;

associate the characteristic values with a time of the combining; and

transmit the characteristic values to the control computer.

30. (Previously Presented) The measuring system as recited in claim 29 wherein the telecommunications network includes at least one of an internet and an intranet.

31. (Previously Presented) The measuring system as recited in claim 29 wherein the measured data includes a plurality of measurement parameters, and wherein the combining is performed according to the respective measurement parameters.

32. (Previously Presented) The measuring system as recited in claim 29 wherein the characteristic values include at least one of a minimum, a mean value, a maximum, and a standard deviation of the measured data over a time interval.